



**SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN (AUTONOMOUS)**  
**VISHNUPUR, BHIMAVARAM, WEST GODAVARI DISTRICT, ANDHRA PRADESH-534202**

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**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

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## EDITOR'S MESSAGE

*With immense pleasure, I announce that the Department of Electrical & Electronics Engineering has released its Newsletter for the second half of the year 2020, highlighting the different activities and achievements of our faculty and students. Shri Vishnu Engineering College for Women (Autonomous) sparks the knowledge of flame to develop shapes uniquely to illuminate the students' existence.*

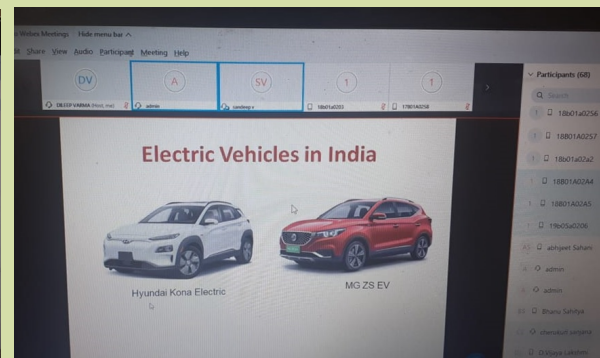
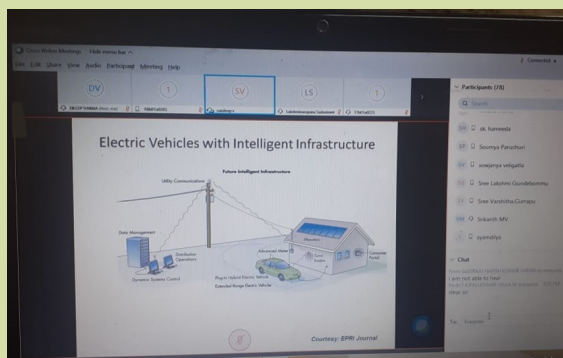
## IEEE WEBINAR ON EMERGING TRENDS IN ELECTRIC VEHICLES AND OPPORTUNITIES

*Shri Vishnu Engineering College for women IEEE Student branch in association with IEEE Vizag bay section organized a webinar on "Emerging trends in Electric vehicles and Opportunities". The webinar was delivered by Dr.V. Sandeep, Assistant Professor, National Institute of Technology Andhra Pradesh. The event was held on 15th Sept -2020 on the eve of Engineers day. Dr V sandeep has delivered a talk on emerging trends in electric vehicles and opportunities. In his talk he has covered various types of Electric vehicles, Concepts and their working principles and the impact of electric vehicles on grid system.*

### Inside the issue



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# STUDENT ACTIVITIES

## STUDENT ARTICLES

**Title:** Structural Redesign & Implementation of Conventional Bike for Electric Vehicle Application

**Authors:** Polinati Naga Mounika  
Yenduri Jyoshitha  
Javvavdi Rachana Sai  
Neelam Jyothi  
A Santhoshi

### **Technical Description:**

*The Electric bike drives when compared with conventional internal combustion engines have lower local emissions, higher energy efficiency, and decreased dependency upon fuel. Operating a battery vehicle will eliminate emissions inside the cities and reduce the dependence on fuel. Electrical bikes with lithium-ion batteries have a higher energy density, longer lifespan, less weight, and higher power density than other practical batteries (lead-acid battery, NiMH). The advantage of E-bike is to reduce pollution, fuel consumption, and running costs. It is eco-friendly and will fulfill the need for a green revolution. In mere future, these E-bikes will be trending in Indian markets. In this project “Electric bike”, is developed with the li-ion battery as an energy source that is rechargeable. A Brushless DC motor is used for propulsion of the wheels of the bike and a performance analysis of the E-Bike will be done.*

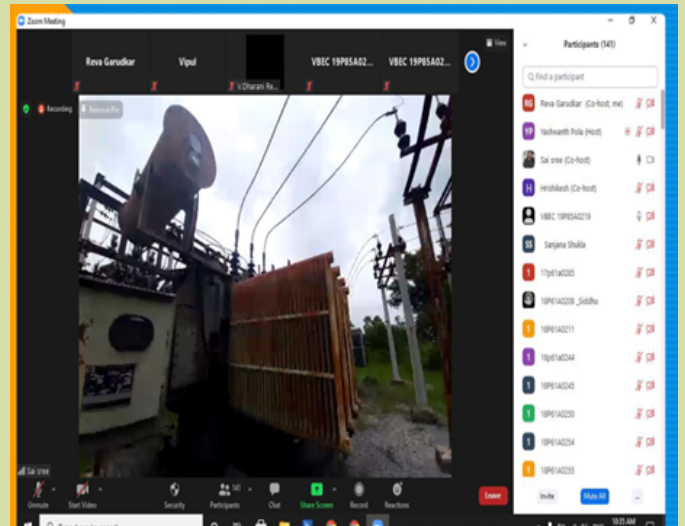
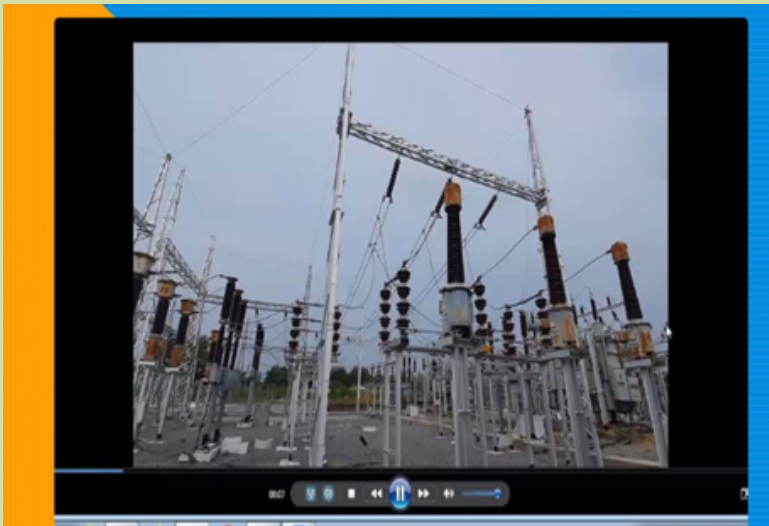




# INDUSTRIAL VISITS

## VIRTUAL SUBSTATION VISIT OF HYDERABAD INSTITUTE OF ELECTRICAL ENGINEERS

- II & III-EEE Students attended a Virtual Substation Visit of Hyderabad Institute of Electrical Engineers on 02/08/2020.
- In the beginning, one of the assistant engineers explained all the essential components of the substation and explained a one-line diagram of the substation. In addition, they explained SCADA (Supervisory Control And Data Acquisition) and various programming done in the control room.



## ACHIVEMENTS

- Y Pallavi of III EEE student got the IET CLN Young Professional Trend Setter award 2020.
- Y Hema Adilakshmi III EEE student got the IET CLN Young Professional Academic Performance award 2020.
- K Srivalli of III EEE students got the IET CLN Young Professional Activity award 2020.

# FACULTY ACTIVITIES



## WORKSHOPS ATTENDED

- Mr. K V S Prasadarao attended a one-week online Workshop on "Introduction to PLECS Tool for Power Electronics Applications", organized by the EEE Department, VR Sidharardha Engineering college, Vijayawada from 02/07/2020 to 06/07/2020.
- Dr. B Suresh Babu attended a workshop on "Recent Developments and Entrepreneurship in Sustainable Green Energy Technologies and Smart Grid", organized by the department of EEE, BVRIT, Hyderabad from 21/09/2020 to 26/09/2020.
- Mr. K Dileep Kumar Varma attended a workshop on "Operation and control of various resources in a micro grid", organized by the department of EE, NIT, Warangal from 20/07/2020 to 24/07/2020.
- Dr. G Durga Prasada attended a workshop on "POWER ELECTRONIC CONVERTERS & IT'S REAL-TIME APPLICATIONS", organized by the department of EEE, Sri Vasavi Engineering College, Hyderabad from 21/07/2020 to 25/07/2020.
- Ms. G Bharathi attended a workshop on "Advances in power Switching converters For Renewable And Fuel Cell Technology for E-vehicles", organized by the department of EEE, Bapatla Engineering College, Bapatla from 01/06/2020 to 05/06/2020.
- Ms. G Bharathi attended a TEQIP III Sponsered Five days online workshop on "Advancements in Electrical Engineering: An academic & Industrial Approach", organized by the department of EE, NIT, Silchar from 03/08/2020 to 07/08/2020.
- Mr. K V S Prasadarao attended a five-day faculty development program on "Recent Trends in power electronics - Research Scope and Challenges, organized by NIT Surathkal, Karnataka, from 23/09/2020 to 27/09/2020.



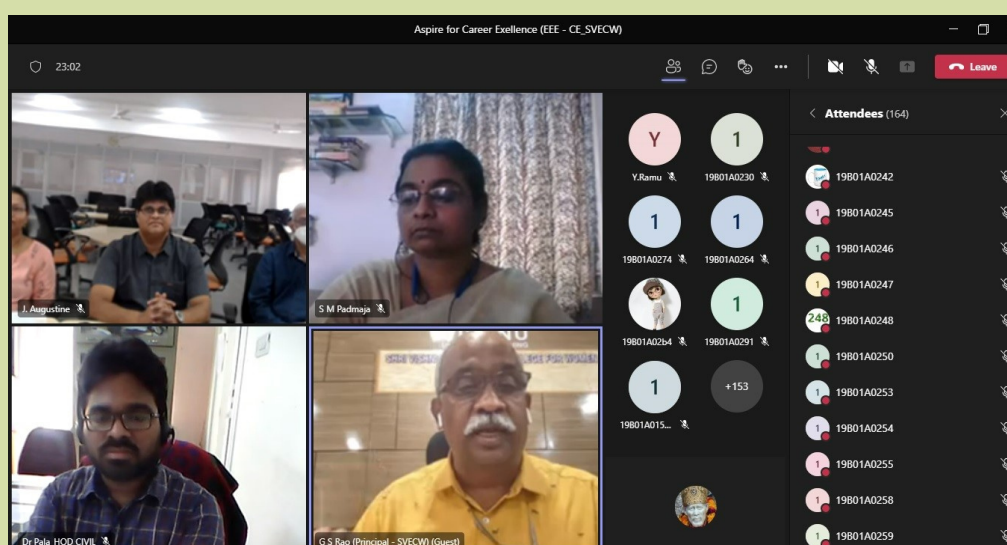
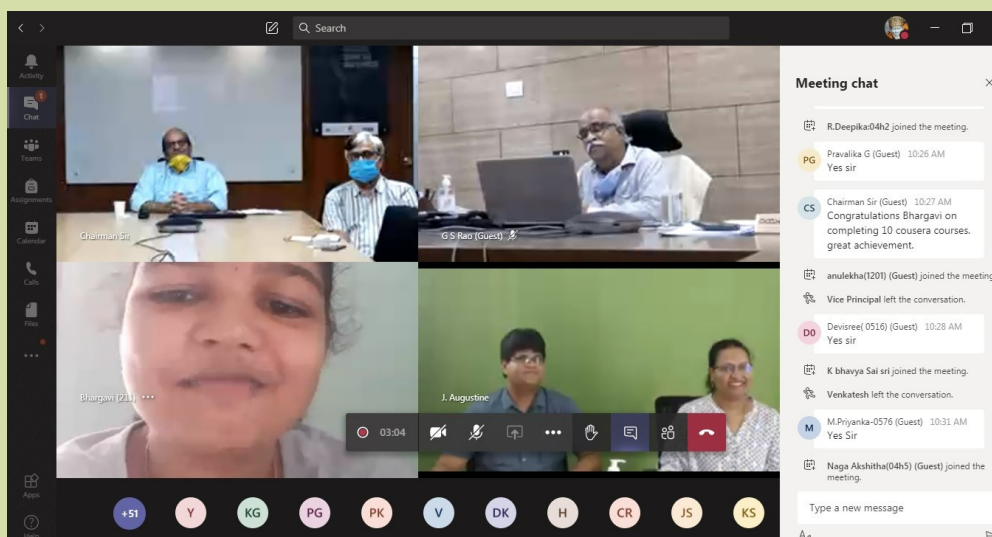
## PUBLICATIONS

- Praveen Kumar Nalli, Kalyan Sagar Kadali, Ramu Bhukya, Y.T.R.Palleswari, and Asapu Siva, "Design of Exponentially Weighted Median Filter Cascaded with Adaptive Median Filter", Journal of Physics: Conference Series, 2089(1),p.012020.

# VEDIC ACTIVITIES

## WEBINAR ON SELF MANAGEMENT SKILLS

- II and III EEE students attended the online webinar on Self Management Skills conducted by the Vishnu Educational Development and Innovation Centre (VEDIC), Hyderabad, during the July, August, and September months. In this webinar, the Behaviour specialist J Augustine and Jebaselvi interacted with the students regarding the experiences of online classes. Both presented the different strategies and importance of self-management skills required for students in the education sector.



### Department Vision

To establish a knowledge hub in the field of Electrical & Electronics Engineering to meet the needs of society

### Department Mission

- To produce quality Electrical and Electronics Engineers
- To inculcate discipline and ethical values among the students
- To empower students to succeed in higher education and research

PEOs (UG Programme)		(PEOs of PG Programme)	
<p><b>PEO1:</b> Demonstrate employability skills and leadership qualities to serve the society.</p> <p><b>PEO2:</b> Achieve personal and professional success with awareness and commitment to their ethical and social responsibilities.</p> <p><b>PEO3:</b> Improve professional competence through life-long learning including higher education and research.</p>		<p><b>PEO1:</b> Graduates acquire technical knowledge to solve complex real-world problems.</p> <p><b>PEO2:</b> Graduates will exhibit competencies to excel in academia or industry.</p> <p><b>PEO3:</b> Graduates acquire ability to practice ethical values.</p>	
POs (UG Programme)		POs (PG Programme)	
<p>PO1 An ability to apply knowledge of mathematics, science and engineering.</p> <p>PO2 An ability to design and conduct experiments as well as analyze and interpret results to provide valid conclusions.</p> <p>PO3 An ability to design system components (or) processes optimally.</p> <p>PO4 An ability to contribute individually/ in group(s) representing varied engineering disciplines to accomplish a common goal.</p> <p>PO5 An ability to identify, formulate and solve complex engineering problems.</p> <p>PO6 An understanding of professional and ethical responsibilities.</p> <p>PO7 An ability to use written and oral communication skills effectively</p> <p>PO8 An ability to understand the impact of engineering solutions in a global, economic, environmental and societal context.</p> <p>PO9 An ability to engage in independent and life-long learning.</p> <p>PO10 Knowledge of contemporary issues related to engineering.</p> <p>PO11 An ability to use appropriate techniques, resources and modern engineering tools for engineering practice.</p> <p>PO12 An understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team to manage projects.</p>	<p>PO 1 The graduates have ability to discriminate, evaluate and analyze by acquiring conceptual knowledge base in power electronics.</p> <p>PO 2 Ability to analyze complex engineering problems critically and synthesize information independently for conducting research in theoretical and practical context.</p> <p>PO 3 Ability to think originally and arrive at optimal solutions for power electronic systems after considering safety and environmental factors.</p> <p>PO 4 Ability to identify, formulate research problems individually or in group(s) to the development of technological in the field of power electronics</p> <p>PO 5 An ability to develop mathematical models to use modern tools for designing power electronic topologies for various applications.</p> <p>PO 6 An ability to identify the opportunities in multi-disciplinary and collaborative research work</p> <p>PO 7 Ability to manage projects effectively after consideration of technical and financial factors.</p> <p>PO 8 An ability to develop networking in power electronics community and to make effective presentations and technical reports.</p> <p>PO 9 An ability to engage in life-long learning and an understanding of the needs to meet current trends of developments in the field of power electronics.</p> <p>PO 10 An ability to acquire professional and ethical responsibilities for sustainable development of society.</p> <p>PO 11 An ability to examine critically the outcomes of one's actions and make corrective measures independently</p>		